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the Sict 17 Yea, and a dead size too! The performance of the Sict is not up to anvill I expect that Sict 2 I sek could Shakespeary do any better? It's

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and concerns extranet customers in fider, personality in the two restrongense class of New

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eccessing to Peter Clerch, Compus Claude's procedur and managing access: The move is part of Compus's global integration of Digital Equipment Computation's widelwish appraisons into Compus, Compus Coastin consugement tail before very spile happed about the fine of Degist's commonly Coastily intensification apprehensis.

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complete chandown of Digital's enshalsowing facilities in Comthan wall more the less of a belieut-folder-n-year experi furnities (the of the Digital production from its Kaipin plant was for expert). The

is a higher spacet the order Creation convey The accreating 200 or so employees will become a all shapping feedby for the Creation market, nor blanding operation, such in the creation of publishman, will be marked to Scotland, which of

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the elimination of my that WoolFerfest operation and the loss of American jobs in fraction of those forces will be offset by WorlFer related jobs created as Ottom and Inclusion.

related jobs created in Otomes and Inchmill Coast as consument to lone mothet share and money. But for those being laid off in this latest said chapter in WoodPerfect's decline. But store is international industries, discourse and trend-leve jobs.

Sympathy for the Devil About a week before those two overse, Michael Dell, the founder of

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Most rappe PC endors are flying to jump on the lettered comamone bandwagon, but the deformant deep from "chinned confider." Moncor Charles, for example, offer the best deformated power on PC to II Will dist, without in Fig. with on soles to its shorted posterior steel. How can suppose elements the cost of a smaller channel awdited chinnel many for mediate? Without DMIL distrimated to the competition's hybrid and properties."

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by CCW Stuff

even of you both have Pelesse Systems (The 'Invanhia' functor adds about \$550 to a \$50 to) need-took. The players are than ovaidable to procupeous wesions. The company is unitaring the technology (which guaranteed supplies) and the technology (which guaranteed supplies), such as precentional Uniting a special "May," the notions of an about to entone the company of the procure of the company was the procure of the players of the company was

Doughbook nothooks, which are measured as magnivers olly and morposets get around components that the hard serve for sided should reconstruct. The ZooMitz Pennium B-based Toughlished 71 has a surver price of \$4.599.

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details of what it takes to be protestive as multimedia Labs SoundBlusser Laus, acrowscod back or his the company bought when it counted E-mu Swarmy Inc. back in February 1993, and Erspens Corp.

Sound Blacker Love, which should shirt in operation, which knot it from efficiencing addinguing the EMELLOK Libertal sarnal encourage are already supper for speech recognition. At this writing, a bundling deal than would are the cord - PCL by the way - bundled with continuous-speech recognition software seems likely facted by the company's dominant matter share (the coragney's restimoda/sound boards are found in an

Audio " Colific some compresser 3-D audio securica-(bead-related transfer function) - in essence, in radio acquisitions, the high-quality speakers from Cambridge a't, support to gurace in Elicity to creek on as gurace. developers take advantage of the company's many setering to develop games that exploit the sysarm's account modelite extensions to Microsoff's

Although space down't permit a full description pleas with the novance - such as reverberation -DSP resease out 1,000 MPS of the processary power examine subtraction is few road names and watch out? Indeed, Creative Labs as making has with its DVD. sold to date, and the unsreasive \$699 once on its power

what more expensive DVD-RAM drive as our Techniqui Excellence observe. Way? One wont: Inspection Panasonic owns 620 panetts in Japan for its RVD-RAM approval). Interestingly, when we checked Creative implied that it could only write DVD-RAM Type 1 to allass of what the company colls "Environmental read gradest DVD-ROM dails at 2X sweets 17.770KB/sec) and record up to 5 200 at 1X speeds () 365 KB/sec). Parassonic surv in forthcomics 4X DVD-ROM drives that this falls will be able to read those Type 2 disks disactly. We expect most other man-

> Gracue Bresett is Editorial Director at Canada Consumer Paper Inc. He can be reached a





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HomePNA's volution is based on sharing the

more of previously 7000 to 3,0000; are as the 2500 to go 1 1500k range, whole the range above 2568s. For example, Tut in away the 5 SMHz to 6 SMHz mean for its 150 per Creating reliable 1000bps Ethernet with

Property Dresson Malteinung or PDM

PEM proper attues frommer hand, to the

ple, phones as well as other applicates in the

A simple home networking pystem could also drive the market for house automation devices where a connection to the central computer would be an close as the reasest phone lack

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What They Already Know

ey all me, where the bugs not, and how to get record all of them." A large uner community also helps window improve them took, whitek mad. "The more proptic who me a problet, the more proptic till find bogs and more will get reprint back to the vandor and one gets final and the spookless becomes better.

Familiarity Typical developers, sandag is front of a suck of authorize with cush a brook, notil buy what doy alroidy have. That status someone who Microsoft's Vigata Cov 4.0 will probably buy Viscal Cov 5.0 time to approach "it's an every sell to sell people what they fronty turn. Furtherty is very unpotent," and Gorg Ma-

Gibbs a competing record, incomen Moderti will qualify import accelerations, even though he has invested a lot of min-ing distain, in the Mercordi tools be utilifying. "Rate number one here is in sector last in love with software," he said. "We know the arrosoft stuff well, but if something else looks good -Dolphe, Her VeunlAgo, like Vinari Cititi - we'll look," he mad This believe changes every week and you have to continue!

But recording to MFR's Schleck, reduced and covering by sucking with the function is important, especially for smaller development shape. "When you're is large systems

Out in Front National states of the costs register, most classification or and Web

to markers from the weedor.

Nothers Mikks, muchating animager for development tools as Microsoft Classifs (O. in: Microsoft Classifs) (O. in:

Those magabers are suppressive, even if they are not completely accurate, according to The Standah Goup's Boucker. For example, 000 market," a Signer Boscher celle a "serious everministion.

But whatever the number, Boucker and Meansoft has done more in pradicing and clearly leads the RAD morket.

One Box Fits All According to Macrosoft's Miles, one remon for the vendor's soccess is in decision to offer five core tools — Visual Bose. Visual Fast, Visual Core, Visual BoseDev and Visual Footbo — in the one-boo. Visual States package. "There is a small travarial developers using

voloping for, it ring is from a CE device to a desktop computer to a cleanierver application, to enterprise applications and all the way go Web applications," Mika said, He said that reals-such tectors really means the average com-puty men at least two different took internally. Price is also a factor According to Mika, with the exception of

Visual 3++, it is cheaper for a developer to buy the Visual Studie That appearch reflects a garant substay derector. Bosche

different groups of programmers throughout the company use deficient languages, because they'll this to able to these their coie." That counds good to Michesti, but he has



This trend has only kicked in over the has year, she cast, as per

Of the best share weldowly people resisted the applications looked used but they wend's performing as well as the old applications and — there's a force stress, but the assistances and hold to each other

I APPLICATION DEVELOPMENT

taking a better look at the infrastructure. They still develop the spaces servers but they want to MIR's Schook has also would this rand. high-quality, modern tools for huilding robuse

piler to write Windows 3.0 applications," he said write a lot of code to make it do anythms. couldy sample yet."

big changes as that over the nest see months, so that when you build emerging three-firr sorbin-

The Vendor Picture ge to the Standah Group's Boucter, will be

things to learn, so make it easy for me." She mided "So the moducts are noting to in and use them, and looking at the players in the market to use who can make it name you use use thus a traditional TP exceptor, BEA can premed at remitter executation trade and RIM

Network Comparine Architecture, as a fearer The company formerly known as Borland phrase "Integrating the Enterprise" or the bess of its new name. Income Corp. Boucher said Jewise may have a brooks fuzzy: "Recked has

always created tools developers have blind, so Being Purc ped, following Sun's 100% Pure Java salet is:

nor. Date from The Standish Group shows that 6 4 per cent of developers plan to use pure Java and 6.5 per one will go with Wesdown-agoaround pure Jews and what we call MS-lave, it's evenly sale as to

which any developer west to use." Beather and "Not too many even are choosing their development tools based on whether they supports Mobern is one of those "I don't care at all 1 understand Sun's deare to have 100% Pure Java) and I like Sun a lot, but whether it's

applications, and purely matters in those confrontacets. "I core, because Pay movem more and more towards working for people who have a county of their hours, on MVS machine and the data agraphics clic, and they want to get at it from almost snything. If you

cels run in a Wintel world and that's a problem

"So my appeard opened to 100% Part Java is extractely impor-Tool Confusion

The Java battles, the various languages and numerous competing yeadays grown production developers are faced with a base reage of choices

"Is in ection ready difficult to keep work of all the different streams that are going on our them," Michells said "M's growing tougher because there say a los of good products and a lot of variations on a thome. The the HP version of Java or Macrosott's or Sun's. For example, we've hardly looked at some of the Borised stuff lasely." "A lot of them are pretty good but we put don't have the time."

But the last three Michell wages to dor verifors to slow the page of manyers as "We'll just have to work barder to keep up" I'll Peres Madelad in a Taxasso-based journalist who approxitors in high technology reporting

most, this infractioners sight sounds error but I have a lot of other

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Totally new

Visual dBase 7.0

lacks documentation

by John House

You may have noticed that Berland International recently chanced its product has changed raw about everything but the name With the respect reference of Visual afficient 2.0. Revised has attempted

to reach the buildreds of thousands of application developers who learned their trade noundary our diffuse code in the "Ris, and the rullions of bus-

Event-Driven Programming Visual dilate follows the example of Visual Basic and other "Visual" push buttons and check hours on a form by dragging the control from

theck bears checked. This is called event-driven programming For example, you may have a beston labeled "Close" on your form. Preprienting the form to correctly respond to owners is easily achieved or Mount of Rase 7.0 by selection as event on the "Events" referse. In this exemple, we would adopt the "onl" live" more. When we do this, the

space-code phior opens up with the skeleton program per-written. All tace presses the Close button, the form will close

Visual Tools

Visual diffuse 7 G as shapped with a generous supboses, there are smape, graph, spreadsheet, spell

really do make sessal programming the and relsandy carn. The variety of tools is better than loaded and added to a components palette to father extend the product perhaps the finest programmer's test editor as existence. One of

Borband's acquisitions during the company's glory data was the popand a serious product vity booster. Syntan color-coding to a matter of course, but like everything cise in this remarkable editor, the colorcoding can be creatizated to sait one's tastes



Documentation

Genteer Started beek and the on-little bells file. The little book is absolutely equation for stratute off, but if won't take you very far Client/Server Edition but not in the Standard Edition. This is a seri-"IF SAY GET" symba and almost everythms else difuse progressseductive, fell-featured object-counted programming language Unfortunately, without a language reference this new hiterature is help. Very few tepses have entraples and when they do, the examples ore complex and obscure. A mountain suchs have belond but, planthere is no ratorial. These are several good examples of projects. forms and occors in the samples directory but without produce of

Disappointment

Nes, we new disassecond. The tools, features diana 7 0 potentially the best desiston desistance

dian because it is a completely new prois transible. Imagine trying to learn C, C++, turn, there will be books. Monte Berland will

Vascal dBase TO. We exercit see now reason why a new developer diana about this is the name.

Pens of the classic disease lawrence year word to keep their even led for Manusolt's Vessal Fooliese 6.0 apgrade 100 John Haran tr co-owner of Nancouver's Eastfade DateGrephics. He

MINAMEN CONTRACTOR ASSESSMENT CONTRACTOR AND ADDRESS 27

narkets

The business applications giant is leveraging the Euro.

Y2K opportunities.

and improving decision

support for R/3 customers

mode to almost new consumers and cycoad exernal business. But for a 54 54 billion Constant) and provets of about catomick high. Surgaring that volume wall become as recrusare challenge

That's why at the responses for SAPa softwar diveloper treating the coar boxtestaly exercities, and to recease around tricky) small to median-itted earlier segment That's a consiste come for \$42" which 16,000 workfaids incollapses. That office Solutions influence - a header of software per cent of the software opens shrink-

confirmed at the coverner size commerced

SAP rater builty produces its Your senious They're Year,7000 costs by door," sad Benging Kigorman, co-dur-

gum of the executive board at SAP AG Einstein company in netrody on Industry applyers my that while propose

more than 20 per cent of business from European sales must pay pertoolar attroface be the requirement for "triangulation," in

which a transaction will not only need to be the Figgs, as companies will be worker at one overcome that will bapally up to five more

constant and discour with the Herwitz solutions within the sest five years.

many at the first possible moment which it Jan. 1. 1999 I "Most of on lower of cast that neether cosymey There is less tok of fluctor common ownersty) and it's point to much

NEWS ANALYSIS

new markets," said Kasarmana. can operate across national boundaries, and Michael Women. In sales marketoir for SAP AG. "But the road to Euro won't be a well.

CENCERCO vide a sobust software platform for reneme vist are emergin receips ortical ambiga-Home. When a company matelle on SAP solotice, that traveally goes band as band with a

However, SAF is looking to make the avail-Heanich, SAP exceptive board member Indeed, at the recent Supplier Madrid merconference, the computer relied out at SAP Beauteen said the business satellarence common "Application include Business Flamming and Straulation (BPS) is:

simulation and modeling tool to examine Web-based Edgorial Workbench for path-

· Corporate Performance Monitor, a tech-

James Sheeberd, was excepted of

research for AMR in Boston, said the outside world blue the idea of open systems, but at gy that works well. "Companies never obsected to have a reknooder with IBM or ded, it makes their life cases, agelications work torreber

really has to do with selling products into new markets and selline new "components" At that report Suppliers conference.

no show APC preparates in Malest in long to be hewled on the hour flow SAP The related the apparentment of new

Initiative (SCOPE) They are the SAP says includes scheduling operationism algorithers recens in the arrowst industries the one with data warehousing product, and the O4, o a Web-based solution introded to lum-

browing, may memory, availability SAP has been realize a but path.

technology from other vandors and connect For example, the Sales Freez Automaton is so componentiand, a mubile

Zencke (A line years ago, the salustay would ... Hew strail will \$12 ps? When roked of SAP mortic sancor on a Palm Palet or

SAP appeared Release 4.5 of to 8/9.

Inritz Gron

defence, substrative, engineering and constructors, high-excl. chemical-

> no, high-volume order management. In what could be seen as a strategy

parts than \$1000 SAP owners and consulabout six per cent compared to that period in

the erroses year Interactional Data Comapplications market-place is in shelf a challouge " ICC noted arrests was hornested by company, including a realignment rate three richile stani-fle-circk product catalogic in these industry texts healthcare telecom-Management and sellings, rabbe notice.

Software Softman of Tarress, and Proposeds

Rubert Merochene, president of Associates Inc., and SAP is savegly refocus-

2. Software audit 3. Partner/supplier/custor

4. Finance audit 5. Contractual audit

7. Logistics audit



Logar contract make?

Logar contract have been contracted into the market — in 19 x 50 and 21 mark sizes. For people who makes

logar and better contents, like graphers professionable or published, these the way is go, as marker what the proof

that is with may other arms of the componer vesself, procession counts the contract of after trachrology to deep

With entry level 17 such manages starting as error preces of less than \$300, th not just the portionorals we be contain a long to should fine how measure that once seemed large and decoders are becoming the some please of the moses for this is the floorishing an false world. As times using your less, they are intering an exact of the superior of the programs A presented at the superior large programs. A presented as the superior large programs. A presented as the superior large programs.

way to keep beare talls on which happening on which weather with young in higher decision paper. With the possible of Men all Section December bevering the series of the decision by Labifly Wilder As (1964) by 1864 with possible but the set the opening of legibility. The 17 with mention is much more computed of conditionably handling those higher numbers.

A marker of the mention is entiry level one part that havin mention, with mentions from the other mentions of the condition of the mention is entirely that the condition, with mention from the other mentions of the condition.

what is appealing on the companies of the integral, then and a transforming post consection variables. The summary of the commerce that it is a like between the term in but more worldaffe, excluding more with 27. The index-on 25 term day post, plans full marge manipulation capability. The possible is appeared to appealed the contract of a possible to the consequent to purchase one executingly. A conserve when will be using the companie a fair may be much harbor when beyong their manufact. This will institute only the contraction of the contraction commerce of the contraction of a like-contraction commerce of the contraction of the locations of the locations of the contraction commerce of the contraction of the locations of the











For more information WWW SCEPTRE COM Fall line — 15 to 16-noth Optional speakers — 15 and 17-inch Optional USS — all models Fau year lenthed versingly — all models Bosphor's ARRIC** — all models Advanced Cligicial Aperture Multitaley Dynamic Plotas — all models Acto Anth Antigrations — all models Acto Anth Antigrations — all models

a Anti-Automation — of models

In the workship is being in said the difference between which were worked with perfect presented in Adults on disease has a remain of a perfect presented in Adults on disease has a counter pain countify make of most perfect of most with perfections designed as the color learner to perpen perfect and exemptions globally and the color learner to perfect perfect and the color of the

This rooth, we've gathered together a mather of cetary-level monitors. As you can see videor a few handed dollars, there are we've range of possibilities upon to the customer iterating to purchase a

A Note about the Tests:

Montar testing is quite subjective. We used DisplayMare by Senson. Technologies (Appellower displayment need for testing purposes, masing such content changed is select of test armost tools for fillation, forms, edge clirity, motes, convergence and assorted others capabilities. # Flether: The display on the screen is created by expented passes of

bean on radio the not pair. Contain when we now susceptible for the other in Edicks (pitch) certain which the word) is Found, single chiefly and convergence. The display ratios at their suppose to the Found void grean and fill-all contain the requisited compared to the Found void grean and fill-all contains the requisited contains the contraction of the contraction of the contraction of the other in converge discretions have profit the gastern quality on the research will be filled unation they are further new places to first great necessary of the discrete display of the account and the fandation while uptication colors are provided better consequently the congrouse and covergence is upon temporate to the protect guilds, this hours by provided better from the fair for the resume, pupiles uponed.

can often show up as a blast even on some of the best assention.

Moirer The reside effect occurs when a factly-drawn perform on the sorrest coeffects with the pends on the secrets, an assent which the use-up of the relation shot of the design. This cases "west" preform to appear on top of the pattern being shown. Augment who has seen

only rules a like bit of discyrchanication of the layers to come now complex, passions. The more robin this effect is practiced by a soutice, the less extend that incenture is to purple; early with any complex, and appelific circuit. Some monitors come with centrels to 'centrel' the assists, but the insult is often a ranghoring up of the zero of the

printer.

The mases those tents are subjective as because, unlike benchmark
or go solower for CPU speed, most of the tents are done by epolating the
accurate and making a subjective to all for our chort, here's a rough point to

Ouantities:

rglighter Nose, or amounts so lettle as to be a framed. Very send amounts detected, but not

■ Some Deficinely visible, starting to interfere with the deploy or places

across neally unviersable

Sublimmed (States only) subleminal fluctor in finite: that occurs
are under the level of consistent prooption, when the user looks at
the across, flucture on levelune, but considering about the director.

Quality: • Facalise: Tap-seach quality Few problems, if my • Vow good Sall quite good, though the person might festure slight

lon of quibty at certain places

8 Good Most of the screen is olay, but problem areas we becoming associable.

Testing in 1,000 by 166 excelutes was those with an 155 in relaxinate, and soming in 1,200 by 1004 was done in 60Hz, in simulate zero rape conditions for a good promoting of sease. Some of the months are related for refresh rates where the ones used, but many of those can only be authented with a 1,800 preference value can shall a list of video RAM. The better the video card used, the better the results will be

The Contenders For this month's lest, we asked for inexpenses 17-lack members

mund at the consumer market. Because a few of the motitors recoved were higher-end products, they have been spir off into a separate group of the end of the mine batch.

Acer AcerVew 75g

Peed A 25 mm dot pack officer great resolution. There is impressive frequency response. There are move and conversance contrain.

There are move and convergence comparison
A BNC connector as arcticled for Who compatibility.

Case The dissips of the easer counting to the control of the control of the counting to the cou

conditions.
The display purped and jetned or 1,300 by 1,304 or 20%, but was sold or 70%.
These is claimeting receip problem at higher resolutions.

No. A re-Very Year, a conclusion just for five a president problem grant display quality and a good selection of control and a resolution of control and a resolut



Scorpius 98/ Scorpius 980 NetMedia Keyboard

Scorplus 98 Points the Most Powerful Connection to All Applications Scorplus 980 Features the Most Advanced USB Interface



- 184 or 105 key or Confuden the 2 as

Plus version with Wrist-Support waschmere
 Adjustable filt caechenium
 High quality flabble-Mechanical key switches
 Permenenty wiseched 6 foot cable
 Tambe Say street

18:900,000 bit system per nerboli
 Averlebin to all bengunge septiato

most convenient operations and powerful connection to Internet, Multi-Media and other

unique features 20 installed Hot-Keyu can operate Browsers, Audio/Video CD, Calculator and more. 19 keys of 20 can be se-defined as favorite functions by user friendly interface.



















LAB TEST ADS SELECT CORN CO.

Press: Three is solid performance with

from These are constal \$50 outstal arthrops



Barr Still dead Peer. The prace-and-spin DSD control

Came At a 25 mm dat gody, empress a let course.

The master is a proby base and respensive unit.

Cybervisias C72



few by the out specific are a use of the applicable





Daytek DT-17762

Place. The 28 was dut prich offers good resolution and proceedly above probes quality.

Easy. The short agent cord could be architecture, if more distance from computer in required Edges were a bit ways in places, and the screen absent senar ghosting. The DSS aution order is a bit greater, common common, like sententifluorounts' are and genties, says based at the betine of the

Startests CT-17750 connecting property a print policy with some last of finders and a lot of distriction secured the edges of the servers on



Price Pilit court Proc. The DES has related blasted between anti-connections. Fortun between during an annual contract between Come There is plicit deferred unused the educa of the surveys.

The DEMENT is a round over such a project of finite and responsible stone courts. We look the observed another tenders

Hyundai DelusScan 2005

Prior SPS 10 WS Peer A. 25-ers dat pitch provides a high-covins dealers

The SalayStree MSS is a monthly with arest surfamenter with moltower than



solved for laidely, but are sucleded

Compaq V75

Per Da has received



There are minimal \$50 controls

Eigo FiresSone TX-CI Proper Si COO street Prog. To 25-co.

There is a \$300 connector for Man The SSC central batton is a owned which title

Same The DSD control penal is a bit touchy it's

District Report for previous high as formance in the tern, and the Roubsen TN-ET is no exception. The

Peer the record is an IEM version of the well-larger. It delivers sold perferences with a writing of flictor

Come Some moor phasting was national

KDS Orchestre Steel Drum

Proce: \$405 street. Presi. The montar delivers reliable purlaments with a man-A BWC connector for Visc companishins is included.

The addle-named Street Engagements is correct quality display for a management KOS is bigligh intent its KDS Advanced Replacement Express Service MARKS warrons amorain the residence defective wifee the freeze new and

LAB TEST

Price SSESSIP

Prox. The product cornect harp moved known name is countries.

Cres. There was slight rates defarribes and rates flicker on the une treated

weapers and attendess a send check of which was co-rectable with the CSD weaper measurance.



Augitreese C-Sy17019

Prior SES street. Pres. The 25-can deligated delivered responding performance.

Case: The edge quality was not as good as the rest of some Though the image might but a bit on the course only, the profproblems with focus of the edges of the somen



These is minoral facility, and entel saouti a' rois

The Television \$1900 has a great \$50 interface, but the province for

Price 5070 582 Place. The high contay display has not to not the figher and wife some many of higher resolutions.

Date. Even of a 20 mm dot pick the image is a bit rearest The Prending STE is containing associated confident monitor with a creat depley quality. However, the price ten may scene







Price 2021 STP Prog. The display quality is very good for a 28 mm. The shallower despor is cared for smaller

There is a good selector of image mangerlater

arch There is some more and finisher in higher rise, but

otherwise this is a tap north mander





Philips Magnavox 107s

Free There is excellent picture quality, considering the Same of the butters for CSS common daubits on

Come. The GSD control is finity switness, with a push-button on hord and a hidden selector wheel under The COO mounts the user to social down to either "tave" or "ext" for each sub-mess, which can be

The Magazinese 1974 from Phillips has a display quality that is expedient, with a fair of Trader and some more being the only mail districtions. The residence ISO con-

Peer. The se o high quality risgles, at 26 mm, with mountain

The GSD melias it every to period between reliated Game. There a nationable main at both 1200 by 304 and 1200

The product's proof + bc on the high side The FEPM is an aminute todays marrier with a record do.



LO Flatron 78FT

Geer There is slight brage distortion impand (all white and blue-grey) see be a bo

There are appears to ghew safearement

The "B" or LE Biretronics stredg for Goldson the name under which Life proposity preyouth

guess LG a new Factor technology, with an





Nive. \$55.500

Peer. This is a great quality deplay, showing sole a little







- Nee 975 977 The less event display could, over at 25 mm.
- The OSD is reliebely intuitive, and have list of image merculation capetalities
- The states are by problematic of 1,000 by 1,000. Viewsard is another well respected name at therefore The CSTR comes in at the high-end of the entry level

Vaxon 1725

Prop. 5115.000 Pios: The spores law

The DSD is experte use Case: While stress quality is constrolly used

Owego compression and expension



Although the problem with image quality and screen regulation

Perc Tris provides and quality 26 min discounts

The spower ecopois dealin as begin

let of sperming. At indentation on the York Improve one.
The machine we restrict hid in less of focus. Spectra is well-respected in the field of moreters

Editors' Choice

Impen Eye 072A

showever a great months owned, with a finer derigately, great plates, and lene-vative 000 selector wheal

Pres: This is a high quality Page There are a few last reason control leadures

At 15 6 mg/ms, the servicible area is produc-More can be a problem at 1,250 by 1,851

Flat-Panel Displays



Prop. EMI shoot.

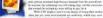
There are proposed by the proposed

Caser The males or conhigence to consequely at TE s SPICES results offers a by of testures for a





where evaluations from a constant CRT were a boulfuler continguation



change from the old DSTN to TFT active-matrix desplays has ready dusting quality shaper and many CREALs. As for an impro-Although the proce or decement, typical actual cost for a flor-quart

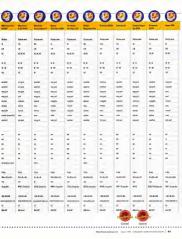
dupley covers on at \$2,399 short more, and the 16 Lords 78M has a respected settal price of \$5.000. This is still for from perfect chance for the typical sour Burker, the regal declare we make up of husbroad and

elements, which excess they note look accountly on the evaluation to that receiption. However, when the resolution is not to some these separates, one of two theres once beginning selected over the same marrier of reach and describe the anni. . the display may become blocky and disroble to the dealer

shouldn't while trusts to several 800 virtual maris our over 1,026 cricitie continues to deep and the coultry correspond more recipie-

chought a monthly day

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NetWare 5

bodes well for Novell

dupt: NetWork 5 (beta) door Nevell Inc. sta: Technically strong

evel as a degree of cover in the networking arms, but has taken some buf-New Nevell is fighting back with new products, new directions, and a new

NetWast 5. The product represents a significant shift technically with a strong exchaus on Java. The precedure is smoother, suppler and includes a Java based GUI interface

enhancements - Nevel's new 64-bit redesed storage sestors, called Nevell Stattan Services (NSS) NSS provides for billions of volumes and directories, up vehicle reproteins measured in seconds for any time volume — a those temptyte

Next, the user is given a screen to configure protocols. Again, there's a change from earlier versions of NetWare: with NetWare 5, one can confirm for ours IP configuration for many comparies today due to interacting out one and the man-

heak bases - one for IP and the other for IPX. If one checks IP, facts we addinoted fields for IP address, subset made and exper address. With NetWise St. compatibility made the user run our IEX-dependent anchestoes in an IE-outperferences. There is also the ability to transparently link IP and IPX network

sudestry-mandard fatorecs protocol allowing plan and alter style network services as a pace IP can income it. With SLP, network resources automatically register their services with a Directory Agent. Clients can girther service location information by





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something you can really use. Unaque product news, marketing ideas and selling tips you can cake to the bank.

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INSTWORKING

The final series of screens deciles additional enhancements in NetWire 5. Here.

scale bla a web let for any actwork administrator. A very best setup would include: 1. Novel Describered Pract Services (NDPS): Units over version of by using different utilities with three different objects. NDPS provides for extelli-



(NBS) Catalog Services: A Condoc

data sets a Casalee Detabase. The dataor surbonized users can define their own

fact queries on data webso the certaing, sorting the capsing and finding releasesthere. 3. WAN Truffle Manager (WTM) Services: WTM is a reductioned and that is used for the reassegment of the cost and congention of WAN traffic. Users a polyor valuates. WTM checks administrate policies to dissenting whether WAN staffic

4. Secure Authenticaton Services (SAS) including Secure Socket Lover (SSEL); SAS provides for the extent of new and evolvens authorizonate systems.

controlled access to files and NDS obsects based on the asser's SAS surhestscature. 5. Nearly Public Key Infrastructure (PKI) Services: INT concept of a set of servers that uses public key engagements and dietal confliction in a Novall

nest doman within NDS to perform certificate and key management activities. This craftles cort figure based secretary survices such as Secreta Socket Lawrer (SSL) sugges-6 ZENvoeks (Zero Effort Notto one wedstation administration tasks

sensete discountries and sense. NetWise 9. which policies Novell Application After resultance is completed, up

pops ConsoleOne on the server server B turn on the feva Virtual Machine that's automatically activised in NerWay 5. This "Performance Monator," which provides a graphical organisation of CPU and mon-

Novell's Schmidt outlines corporate strategy

Are entervaew with Eric Schmidt chairman of the board and chief executive officer for Novell Inc.

Then, we needed to associat on our place and deliver a

44 COLORO COMPRENENTINO AND THE INCIDENTINO AND



This year, cores is wormen new one. A new manifering generate councers in more ong cures for you licentested? Then get rendy to rock. As Memselling '58, the new money-making weston of Sefench Come on down and make your selection — Large Business, TechTalk, New Partners, Off, Software Lecturing or Mac Focus Area.

Register earry, and you could quanty not prose from Food, American Express, North American Logistic Services. Whatever your best, this show's sure to be an entitling experience. This year, get your yab-sphs our. Insend of a few e-shirm, some pers and a muy firther, you'll get those you'll not be summitted on your new few one. Unions renders more, marketine about any letter those you'll not be summitted.

tips you can take to the bank.

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Halifax October 5 Weete Novo Scool



INCOMPRESE

Metavek" and coosts, odd and married obserts on the NDS one. This is made

on any networked reaching that has a single point of coppel in which all

The is especially useful when workste on the server comole. These

100 COADMICES VIEWS. This allows for roccer delegation of administration to others User Admirance while another may emergic Server Management and Printer Management NRS term are tomorable entering outs continues a continue of the local

For example, if a customer has these decarrings, was could create these concheests within their continuous ConsoleCon silves for a view that suchains all absents For done who are still assesse No/Ware S.s. servers, No/Wee: S. serveges a

Novell Characle Wireast. The accord well counsely the 3-x observed makes of fundered will check for coefficit and reveale nations for made up their residence before the One of the anexysteen as older versions of NetWore was as providing the loca-

the context win the bounty context field. New! Decetery Stream (NDR) resolution, with authory to memoral elects orranged within containing in a

eshintenests Ne'Wee 5 increposite to means. I DAP v1 access and WAN Draftic Manager to allow the administrator to deterrines how often NDS should send changes over the WAN link.

Is addition, it's possible to could a over's scores with the April Sovery Management of the mile files is irrediffed and o NPS once they are assessmed as

"NT's main attraction for corporate users, is it allows for the seamless integration hetween CAD/CAM solutions

and sprearisheets."

the data files contained in non-production applications in the organization such as

word recession accounting

determined. Set one not seeing any downsure. We or college more

41 CHARLES CONTENTION AND THE APPROXIMATION OF

For computers to communicate with each other using the TCP/IP protocol, they need IP addresses. The Dormin Name System (DNS) resolves carnet such as prior concelless have to the network devices. IP address. The Diverger Blott denotes. To provide gase of administration, NetWare 5 silows the oner to configure and recover the DNS and DHCP services in NDS trains a large based management application. Dynamic apolates of host names with changing IP addresses are also rep-

There have been intremente charges in the C-based operating system kernel,



which now contains very little assembler code. The Java ongine with its hersel links moults in high-performance benchmarks. symmetric resonance on multiprocessor and allows for the posettization of applications current on the server. There is memory proary for movemed performance and an intecented deburger Combined with the new file

Considera sono NotWise 5 will be laid to best Noncape's award-wassing FairTrack Server and Oracle's Oracle8 The FastTrack Web-server software is decirated for individuals and workstoons

Exterpose Server The transmon is strugly forward, since both product share core The Executer version of Central handled with NetWork 5 resvides an application platform for anneolistic developing and deploy

much needed schedules capabilities, Windows 95-based GUL In Nevell's azonnet so anauct developers, NetWise 5 falls exposon its network services through a complete set of APIs. Dung Java. linked applications. Also, Ne/Were 5 melades and supports the Common Object Record Braker Architecture (CORRA) ORB

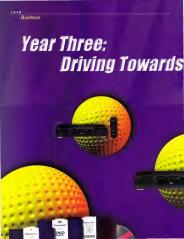
Novell is gambling that this is the right rest of technologies to take the company and the 21st century. As a reverse, I'm impressed with the derection the company has taken and would recommend performance and play-and-play features in IPX into their TCP/IP outbility with TCPVP Nevell's disectory service, NDS, construes to lead the crarket in scalability, case-of-use, single-point-of-administration and cross-platform support. With NDS for NT, and adoption of ADSI Under the direction of Evo Schmidt, the company has placed a mange preclarge on Java to propose the NetWork Loadable Module (Ni Mi) architecture, which is showing its ugo. The question here in will lava

Stephen Branski is a teacher researcher and coordinator or Capilana College, and can be resched at ribarak@capcollege.bc.ca. The college and an faculty have ACE, CAPCE, CAPS, Married Novell. His days that can be distributed across the naturals.











Throats 1990 is desired to be the year when DVD technology west from a precision, now medican to a reproduce of control And 1990 uses Eally to be the year when it will go from one stone group year earning. Groups to the desire intended to the plus question for all plus question and materials playboak it is that article, will be at which DVD it value, and when the year in programming and materials playboak it is that article, will be at which produce in the control processes badd.

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Apples and Oranges in theory, all DVD disks are crusted equal, but in practice their are supported differences, based on their

and the Markov program of the progra

be built on a DVD player, emisgrout to a VCR or liver disk player.

The disky frame generators' DVD deleter and sensivision players began to ship on very would solutions on 1996. Set paned quickly in 1997 and a separat to claim sharply throughout 1996. Nevertholete, and computer deals

III

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found that the new DVD technology, perfectionly that which offered on POs. self-ord from many (the second which provides new technologies, it is only at these basis means on commons of the perfection o

Still Bugs in the System

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make it to market unpraces, saless they support make formen typically KGB for companie. NTSC compact cy; and 8-video. Also, the number of DVD little in a tree of written and moreous.

All Over But the Shouting?
Resilier car't dedure viciney and buy the venenble
800M deire just yet, beweve. The CD-ROM dense was
standed on the enviring resulted being of auditimedia IX
1998. Most of these cider PCs are not network power

There will be a continue mode for DVD appeals that will head-one decompose in the recompose or the Control Libera Arthursteinst of Engeneral college and the Control Libera Arthursteinst will represent only a small procurage of a mare of date PC. For the flower procures will contain a significant proceedings of DVD division. In the Nestern could provide the control appeal of the SVD Arthurstein and Control Libera Control appeal of the SVD Arthurstein Control Libera Control appeal of the Control Arthurstein Control and Control appeal of the Control Arthurstein Control and the Control and Control and SVD appeal of the Control and DVD appeals and DVD appeals are control and DVD arthurstein Control and DVD according to the Control and SVD arthurstein Control and DVD according to the Control and SVD arthurstein Control and DVD according to the Control and the Control and

 s stil what used to be called "abovelventa" in the endy days of CD-RDM* material simply damped down ones dails waters, necessarily showing much overcore for quality or ematricity.

The Copying and Copyright Conundrum

The state of the s

A toly chaosism and attanding DVD copyright persons in an application and anylog persons in chaose colded DNN (personal by a likelywood copyright frequest scene to hence field a well-descreed dook, Dis X, would have recognish sented DVD nestwicts in their personalises, requesting that a repully payment be made on each waveling, via a modern connection to the greatest collections review from the DVD despite of FC. Abetter very so ternigle the growth of the DVD needless would be hardless mounted.

Next Generations

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nest for which DVD has possess. Opportunities for Resellers

DOTA will not thought on one with Despirit the substance of instriction to considerate entering. DOTA approximate work of the CONTROLLANCE DOTA approximate to DOTA as a representation of instruction of instruction of the controllance of the controllance of the controllance of instruction of the controllance of instruction of the controllance of

good sound system. However, if nonlivers on manufacturing and stilling the DVD tacknowing, is in possible to aposit a worthwhile sigment of your constances to the DVD approacher. The opins if the first the side of bull-quality, large-forms members, plus souline systems, and the beginning of the contrasts? DVD thereon.

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burse leading resellers through co-up advertaing programs and other initiatives. Some forms of training ravelee expenmentation where the venture rather or their mentation to failer with one necessary on their

ii. "I would say the gays learn for more valuel-to information by samply playing with the equipment and sorting it out, whether it is in-house or on a client's set in a real environment rather than a rest-cell world classroom," says Valuer test. The rule of thumb for the LAN Shoppe is that it has no difficulty hirring its technical staff americal first week at a time is comes for produce that no entitled to see success. But percently speaking, the needley profess short half- or whole-day training neurons for most other stars.

receiver prints show half- or whole-day customer sensors for most other storm.

"Whenever comes up with the existent transing programs or the one that we can fix into one whethele in specially the one we say going

so recomment - ways Vassishinesk.
On the other hand, recollers connect offered to be totally evolutionory, steps. Albert Dational, director of special projects at Weenito based Brains Reconnect Comp. "It is samply only difficult to self-use him of receivers, or join one servence appearing systems. So you internibly are

servers, or jots one aerwork operating system. So you instructely are getting some love volume lines, when the time and expense of rates ing starts in José onesses."

Exercises tracing expenses start looking the an alturous around a country large, such after methods after traffice rather methods for

Apple faced that scenario, adds Danier, when some of its read-on officers of faced in the second some to hap pay with this verdor's confidence requirement. "That is why were products that out of dates very quarkly."

Leading resident, including Microsoft, IEM and Caso have sought to office are the tree pressure on the WAR schizaci staff with the short

or across very quixwy.

Leading resident, saluding Morrasoft, IBM and Caco have sought to allowing the tree pressure on the VAR scholard soff with the alternative option of computer-hand training, which employees can do so there even tast. That has some to be latern to "Introductiff" foliating in the addustry. IBC Cassala predicts as a secret study that the spite herberten instruction of computer-hand preference with the con-

coughly 50 50 iden the year 2000

Chiceroon instruction is most vehicule in the metal cortification, cays Curt Skion, making and certification prepare manager at Microsoli Cassoli, "august edjectably with someone centage in for first free time (that) fireful is prod group of three darks, the materiation of burn prepared to the metal case of the prepared to the prepa

with the naturator and other classessies in the strongest appearsh."

Microsoft has made it generally naudency that are certified specialists on surrous products, modeling NT, against their sides in annually at one of the authorized their same recommendations in a formular

come Bloweve, if recently loosened the rates somewhal for those with econymical caperine as the composing NeWhen environ legating system. Web had it ten of medlers, maying. It maily don't want to it is them up fire five days. This person is a NEW conflicted Novell engagesty. He's been living the network for fiver years. And you are going to had then hostiant.

Author very to handle expenses is to have training conducted on a staggered bion, sopy hand Man-load, presedent of the Toronin-based Date/fills Neverthang Reviews A larger 20th present operation, as all have the more pance reclaimed coupleyous re-certified first for gover offerings white more expenses of people with older certifications remain respectively for provious modulat lines.

where the second control of the second contr

Revellers or "Nock," if a time when the tend in the computer industry is normally guater openious and flexibility, says. Kells Ellis, voc-president of vervices meanth for the functionated Data Corp. (Chendal Lid On the one role are the major venicles, expecting a lot

leality from their basiness portions as return for ea for six exclusive religionship. At the same time, each users are demanding access to most a broad hase of offerings as sense like

a broad has of offerings at most the networks, databases and the laterist.

Kingston, One-fewed cress/best good of the production of the neutral programmats for specific technical shells in the computer inflatty sight be preferable and would get around this compulsion. Some mining community has been dealed in the pro-

work establishing such certification, but "it is pretty new and not windly recognized." Standardination makes a lot of

and expensive." The

semaindentian makes a lot of semain which which a more in Web solution where vendors come and ps. says Bill Brown, director of product development as a Tomoso training company, CDI Education Com. Bit his white to see

certification for any product men, the materialists process might be many contributed in the consuming state it entails is broader knowledge of a sechanding.

The exposite from the vertices in material, List Rome, IBM, Cantalists morant measured for PC matter shifts, seems more to size.

of standard covilication greater and covilication of standard covilication greater greater Covilication of the about 1 breven't thought about a before from that degth?

But Been Below, Creathin channel operations manager for Cross Systems consider many supportal. He states that has company's contri-

strouth. "Integrating of the public and pros-occording estimates beed for calcidating busine servicings, comprehenses.

In term, Broard defends the reactions for their assist core factors on experiences to assist core factors on the section of the proposition of the production of productions on a professional senseer. Also, the side, IV manufactures, or production senses baseling to exhibited suppose, even if the factoring feet of the production of the produ

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erround will many readure small DRAMs. mass-production of DRAM (dynamic random secure

pleatic because the more DEA devices required special

Someong said it expects to see the chips used in a

SC Introd light SVGA projected MEC Visual Systems has introduced the Michigan (TBD which it alone in the world's lightest and brightest portable SVGA projector, nerobing in at least them 45 upon to give presentations

The LTSS offers competibility such \$40 by (Mar.) pools, using NECs Appallished misli-The allowator is estrainely compact,

Lucest establishes Ball Labo technical centre in China Luciet Technologies has established a new USSS miles Asia

Fullter, Milyon Sun, and user proup promete Jeve technology

bury of the Leeding alog Systems Users Group, which includes more

then 300 compared years Some of the corporate members of the user group will also advan-

It will be hearled by Dr. Tse Let Wang, research and development vice-proudent of Boll Labe Chine. "We plan to have

the HTC grow win a global contro of seculance for research The statement was eighted by Dr. Carl Hou, communicatoes polivero estrio croup provident, "We envise the KDC

of contractions software in the millioni in the development of com-

Internation & Commonsister Systems Inc., which and it will deploy the system as its core system management solution ed \$22,005 years in its first week on line

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2. Poor Marketing Many enterpresents samply don't know who their prospective con-tissees see. They have not four dear marketing research — have to

the housest will suffer accordingly Property and following a reshibite and attacable written marketing plan is receiving. 3. Mistaking a Business for a Hobby

than a hobby. The object of operating a business, of econo, is to earn a salary, recover all your expenses and make a profe 4. Fallure to Evaluata Oneself Realistically The factor to make a feet appropriate of personal streetly, and

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5. Fallure to Set and Revise Goals Gods or observers on not determined, or they are ineffective because

58 CHRISTIN COMPLET STREET STATE AND THE AMPRICANCES AND

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deece, and motivation to contract

6. Lack of Competent Professional Advice

fernional advice when they should it is important to have a saving tosts of experts you can rely on who know your business. This

7. Lack of Commitment

Personal entryation and derate to sock with the objective, recordtheir commitment too easily if the goal is not attenued

There are many other factors that can lead to business problems

TECH TALK I Column

launched its E6-2 rescessor at Adenta's Electronic Emergaturent From selection WINDs and TVMD's empley, with olong to broad norformace to ViCMHz and eventually 600MHz in the third and fourth

This then marks the first time that one of least's connectants has

uct. The K6-2 is the first shap to offer 3DNow, a set of multimedia as time AMD has provided a processor that is differentiated not robit by tor measures or price but by resovaing enchandage that delivers a new level of

president and chief websited officer and lable in opening chain from Cyrus set of 3D patractors, they will not be

But there is a couch - MNow, like MMX, only receides approved perfor-

tigo of it. Microsoft has promised support for 3DNew in its reat conceto use DanceX 6.0 well automorphically provide 3DNove support. Software IDNew offers 21 new repressor increations, characterised as

In address, the KG-1 and the the tenant Dorston & effection personal performance army the board, not and for CPU-conveyor ICCMHz metharboard (Note: best performance at 100MHz, segurdless of the CPU removes faster BAM, which is currently more expension the Kds.7 robes on the Protours stale Soutest 7 designs for the new evol-

are well review on an audiend source become as the forme? Madeson Allona wells the high-speed bas. Super? designs will support ACP graphus adamers which, such more sure only evaluate as despets board on lead to Sky I for Posture II and Colore accourage behand bited's Protours III have as a number of ways. While AMD obsesses

Alon Zonnon et a commuter sugmalise and tracker finter in Marcacour

in VD microsco commisses (soils exceedy sortion software), and whole mable to the Pentium II's the K6-2 remains inferior to the Pentium II As a small, many namely causes that have not been written as raise

Even Intel's low-errord Colores offers all the flusters-coint power of a And while, make a 100MHz has find bush-mond PAMI ranterm built around either a Postian II or a K6-2 will access memory

50 enhancements that go well beyond the MMD's KG-2 Challenges Intel on received at half the presence speed the MMD's KG-2 Challenges Intel on 1356/the presence speed at the Charles of th methodrosof's speed - 100MHz many cases, the difference in eache Recently, a shootest was not un-

> money on a number of outtine roles. confinancedant's Eater than conmore mat a 333MHz EO-2 on a 10000Hz methodologi en cercus a MOMBLE 100MHz BX sucherboard required for the higher-speed Perrison II systems good about twice at much as the

Broodly showed shout 10 per cost before performance for the KA-2 when running games couch on Occlur 2s offering charge support for IDNess will conserved the K6-2 for more or less parity with the land AMD believes that it has expressed the production delication due

have compliance builted complies of an expension, all \$6.2s are being Looking for stall more evidence shot the resolver has opened up more fully for latel's competition? With 1975 appropriate that a will the AMD CRI to some of its Province over a second state of of the major broad parts computer manufacturers offer out of the non-

learl entersors in at least part of Opin resolutions. And with the K6-2 pt the first two-first BlaS6-type CPU to go

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